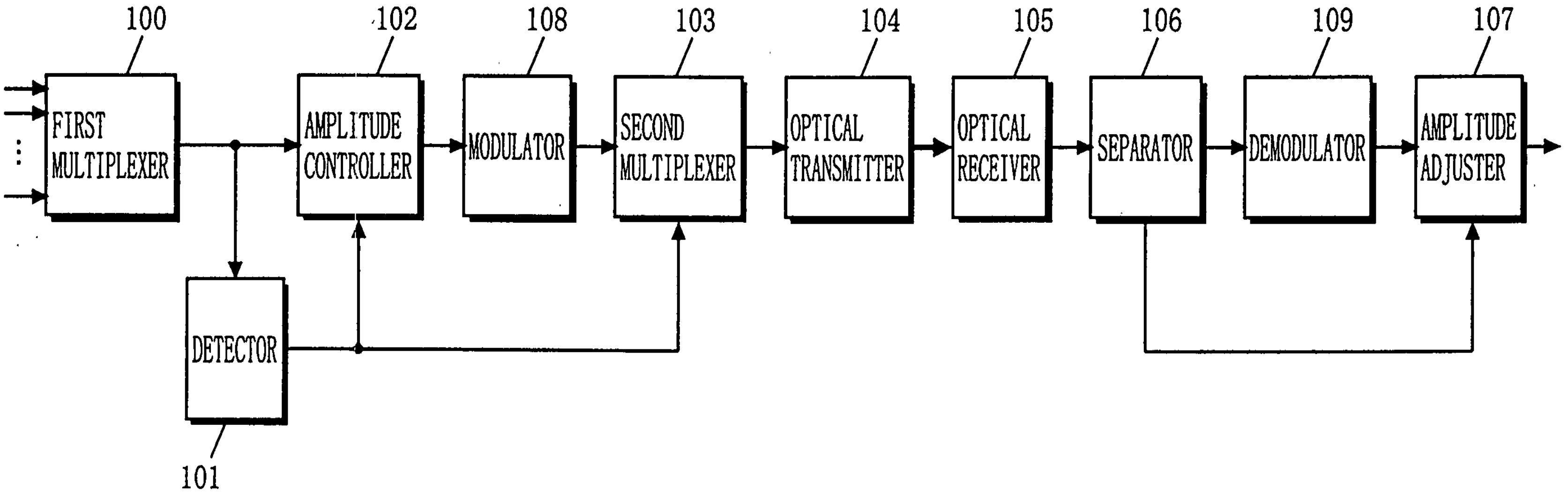
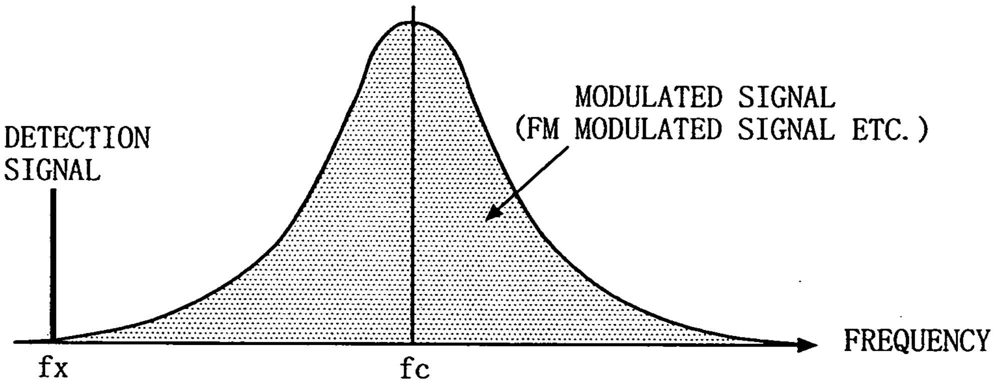
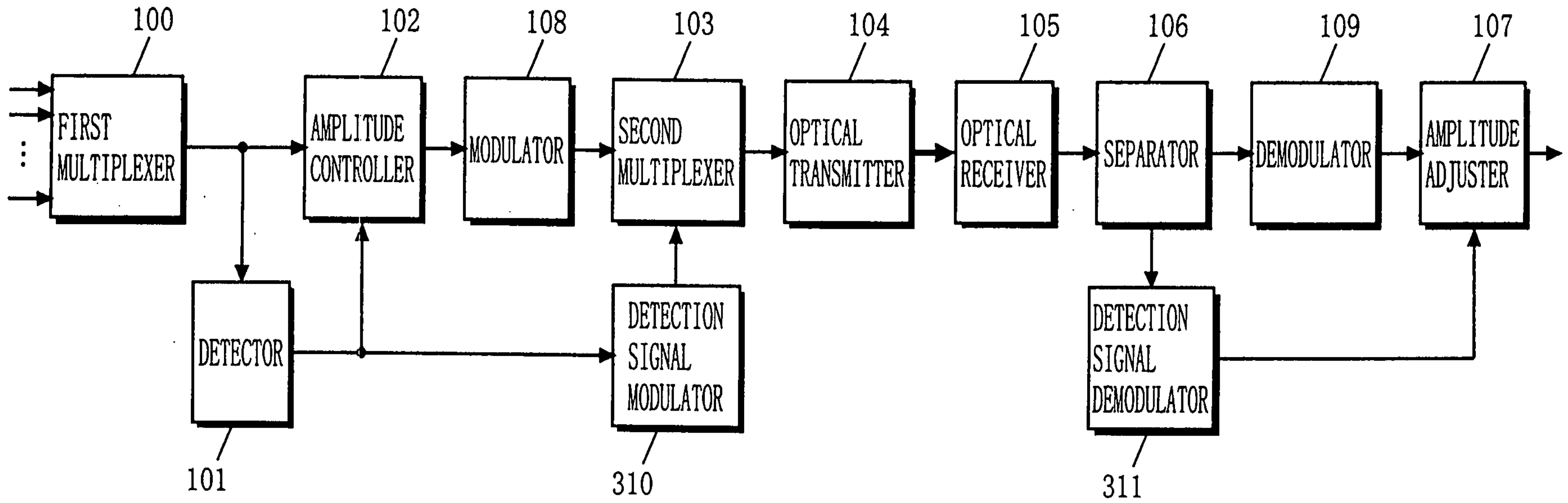
FIG. 1


100
FIRST MULTIPLEXER
101
DETECTOR
102
AMPLITUDE CONTROLLER
108
MODULATOR
103
SECOND MULTIPLEXER
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
106
SEPARATOR
109
DEMODULATOR
107
AMPLITUDE ADJUSTER

F I G. 2


DETECTION SIGNAL
MODULATED SIGNAL (FM MODULATED SIGNAL ETC.)
FREQUENCY
fx
fc

F I G. 3


100
FIRST MULTIPLEXER
101
DETECTOR
102
AMPLITUDE CONTROLLER
108
MODULATOR
103
SECOND MULTIPLEXER
310
DETECTION SIGNAL MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
106
SEPARATOR
311
DETECTION SIGNAL DEMODULATOR
109
DEMODULATOR
107
AMPLITUDE ADJUSTER

F I G. 4

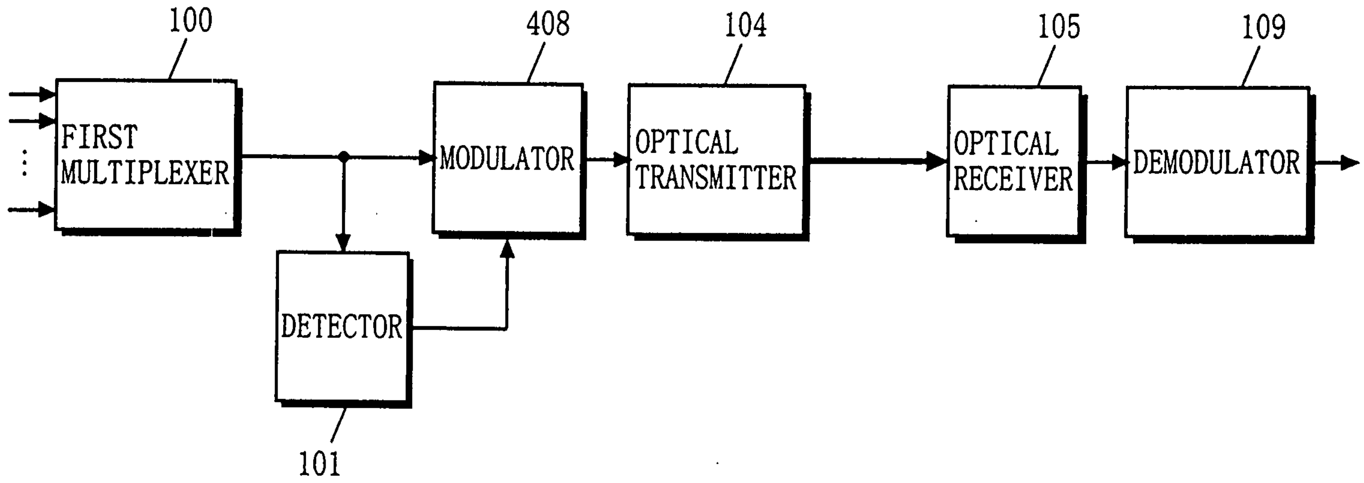
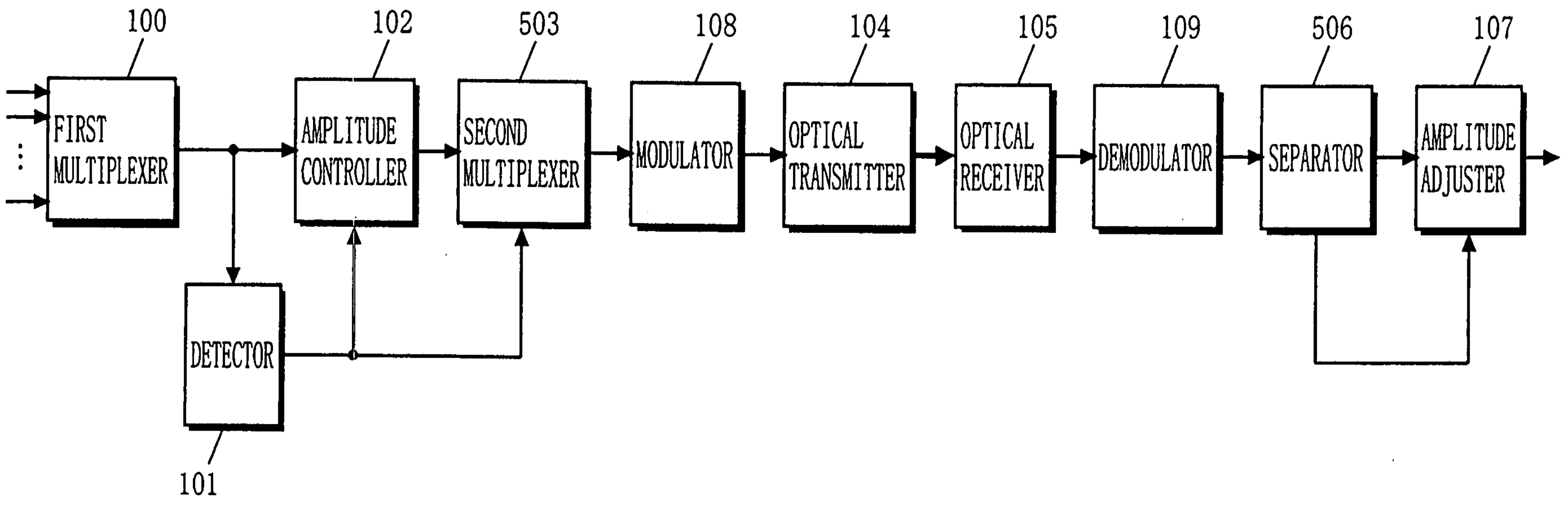
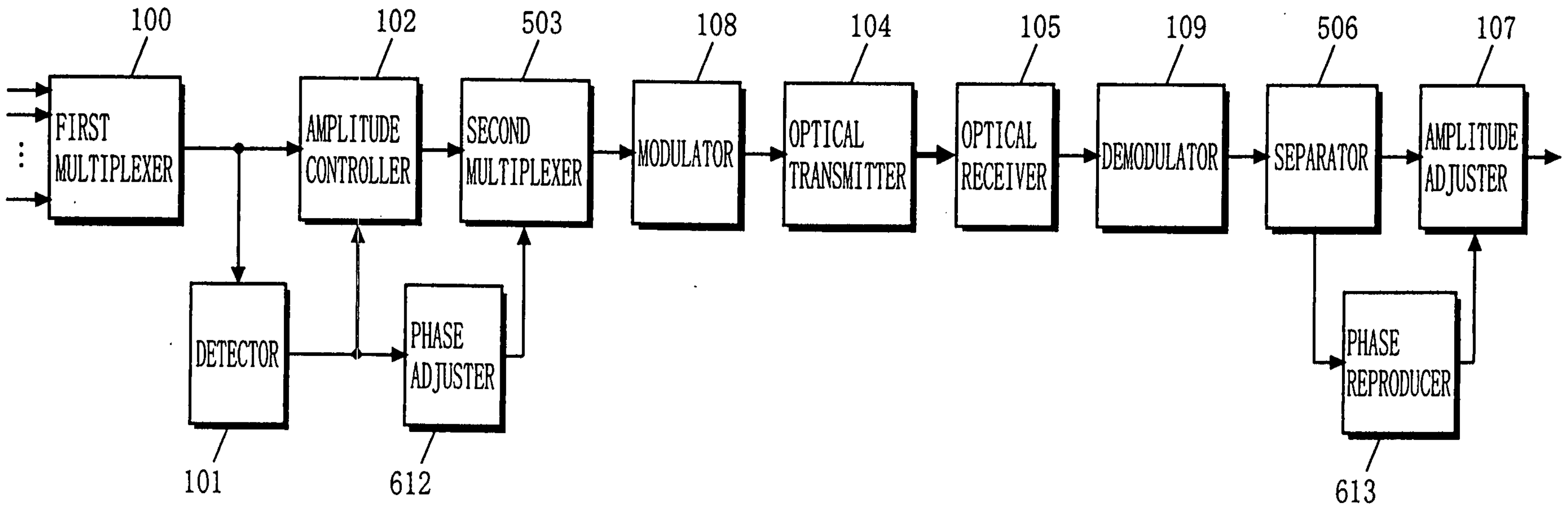

100
FIRST MULTIPLEXER
DETECTOR
101
408
MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
109
DEMODULATOR

FIG. 5

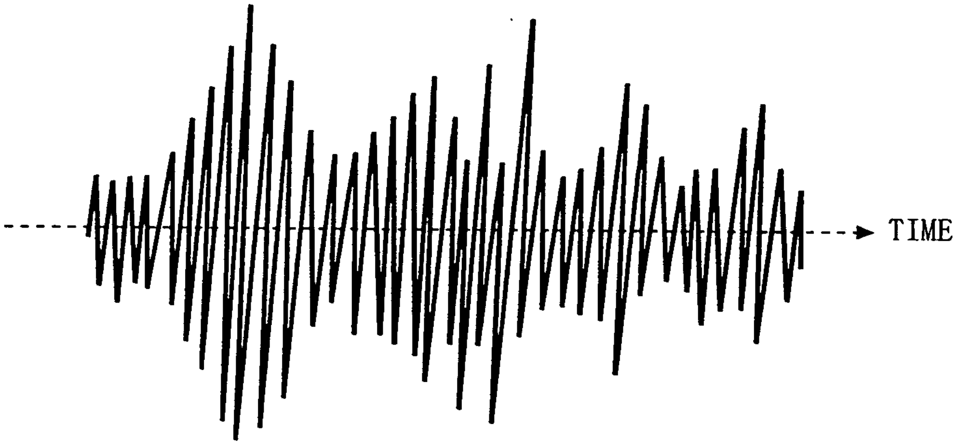


100
FIRST MULTIPLEXER
102
AMPLITUDE CONTROLLER
503
SECOND MULTIPLEXER
108
MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
109
DEMODULATOR
506
SEPARATOR
107
AMPLITUDE ADJUSTER
DETECTOR
101

F I G. 6

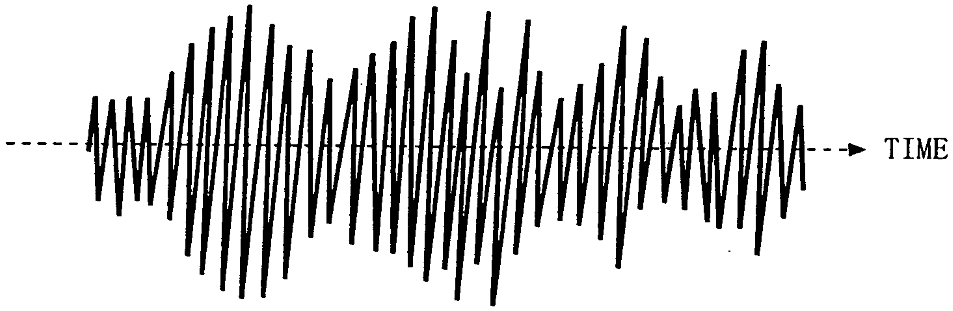

100
FIRST MULTIPLEXER
102
AMPLITUDE CONTROLLER
503
SECOND MULTIPLEXER
108
MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
109
DEMODULATOR
506
SEPARATOR
107
AMPLITUDE ADJUSTER
DETECTOR
101
PHASE ADJUSTER
612
PHASE REPRODUCER
613

F I G. 7A



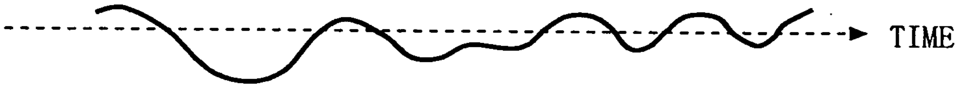
FREQUENCY-MULTIPLEXED SIGNAL

F I G. 7B



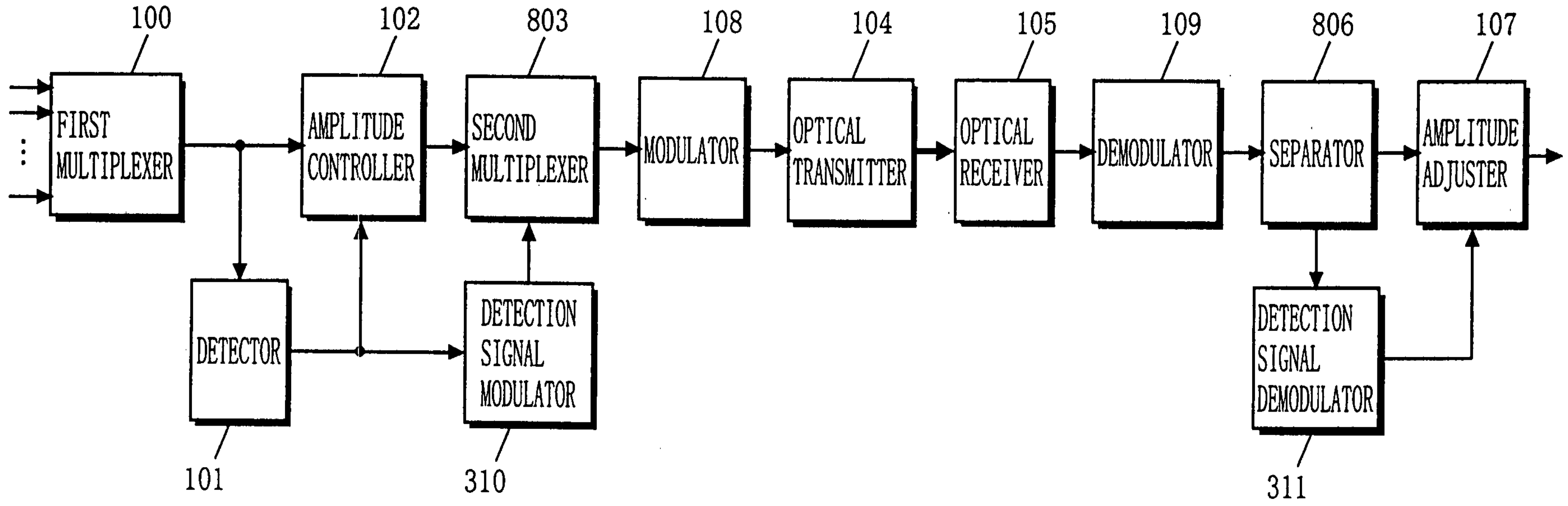
FREQUENCY-MULTIPLEXED SIGNAL WITH INSTANTANEOUS AMPLITUDE VARIATION SUPPRESSED

F I G. 7C



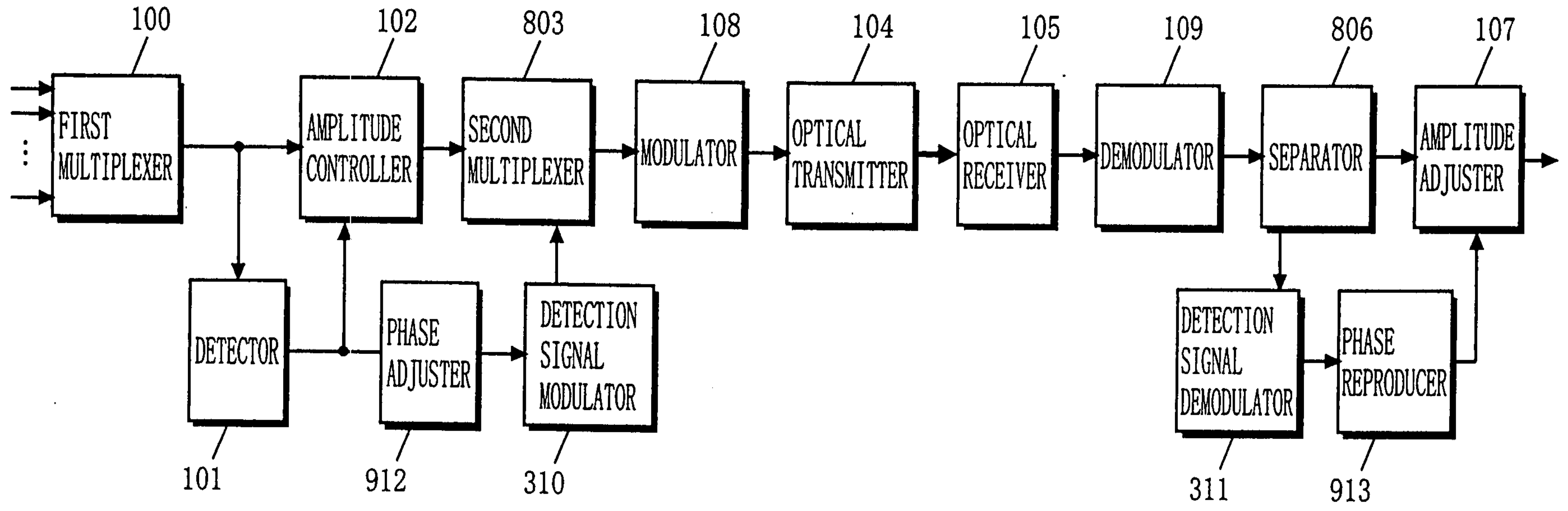
DETECTION SIGNAL DETECTING INSTANTANEOUS AMPLITUDE VARIATION OF FREQUENCY-MULTIPLEXED SIGNAL
(AFTER PHASE ADJUSTMENT)

F I G. 8



100
FIRST MULTIPLEXER
101
DETECTOR
102
AMPLITUDE CONTROLLER
803
SECOND MULTIPLEXER
310
DETECTION SIGNAL MODULATOR
108
MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
109
DEMODULATOR
806
SEPARATOR
311
DETECTION SIGNAL DEMODULATOR
107
AMPLITUDE ADJUSTER

F I G. 9


100
FIRST MULTIPLEXER
102
AMPLITUDE CONTROLLER
803
SECOND MULTIPLEXER
108
MODULATOR
104
OPTICAL TRANSMITTER
105
OPTICAL RECEIVER
109
DEMODULATOR
806
SEPARATOR
107
AMPLITUDE ADJUSTER
DETECTOR
101
PHASE ADJUSTER
912
DETECTION SIGNAL MODULATOR
310
DETECTION SIGNAL DEMODULATOR
311
PHASE REPRODUCER
913

F I G. 1 0

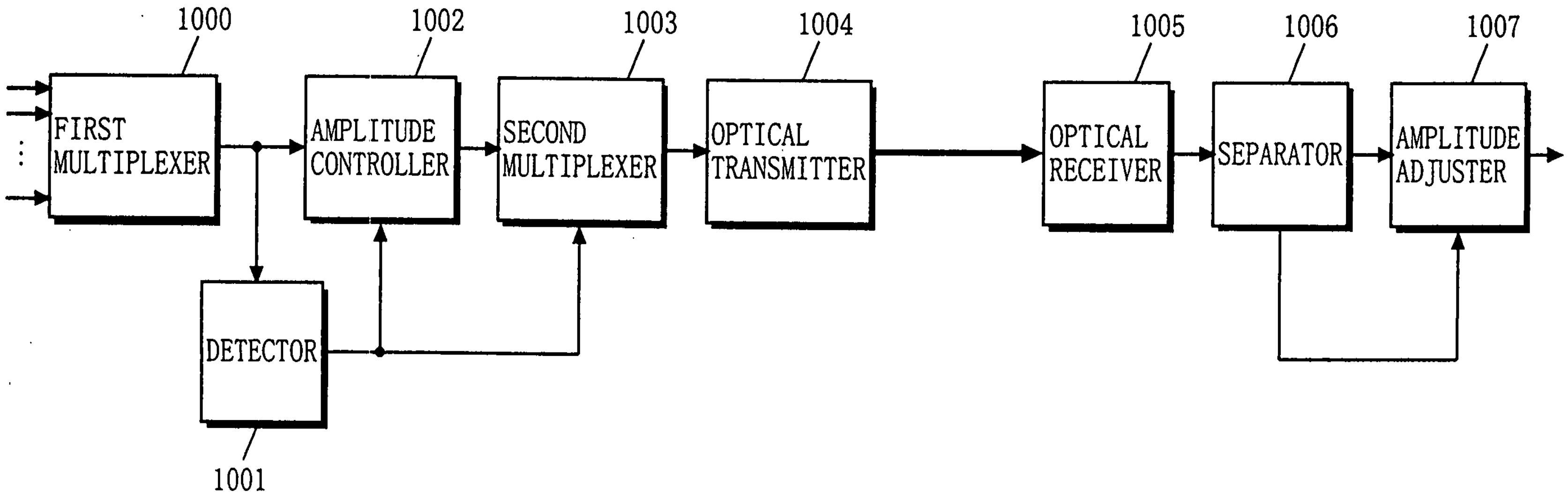
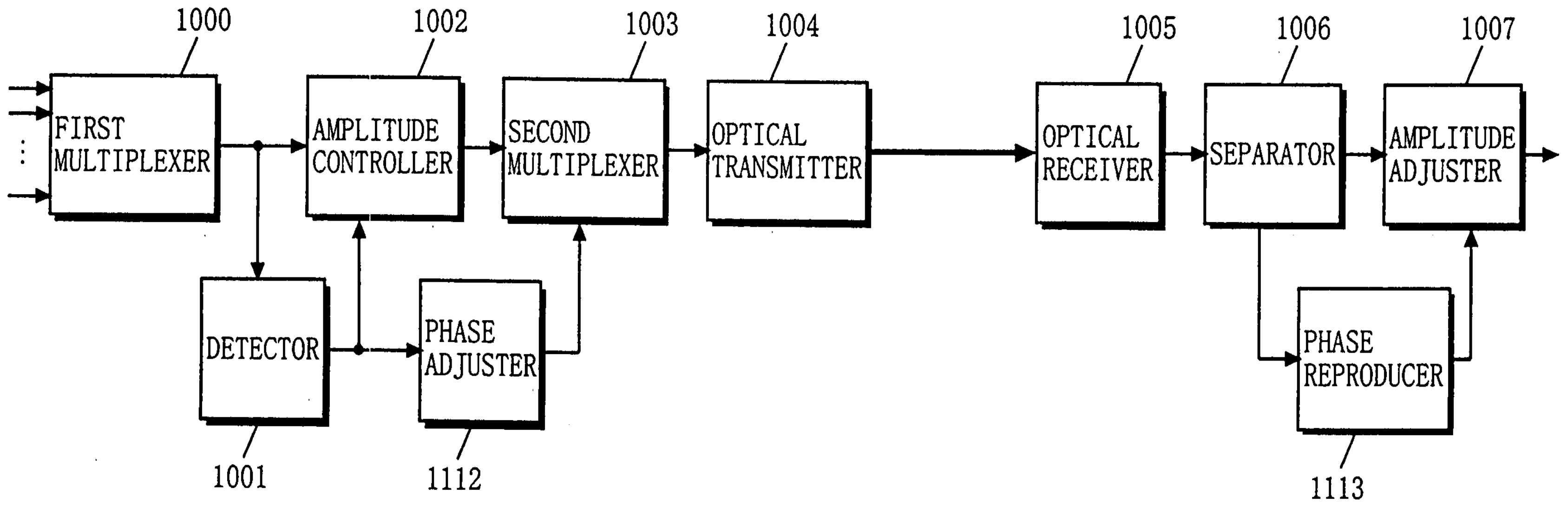
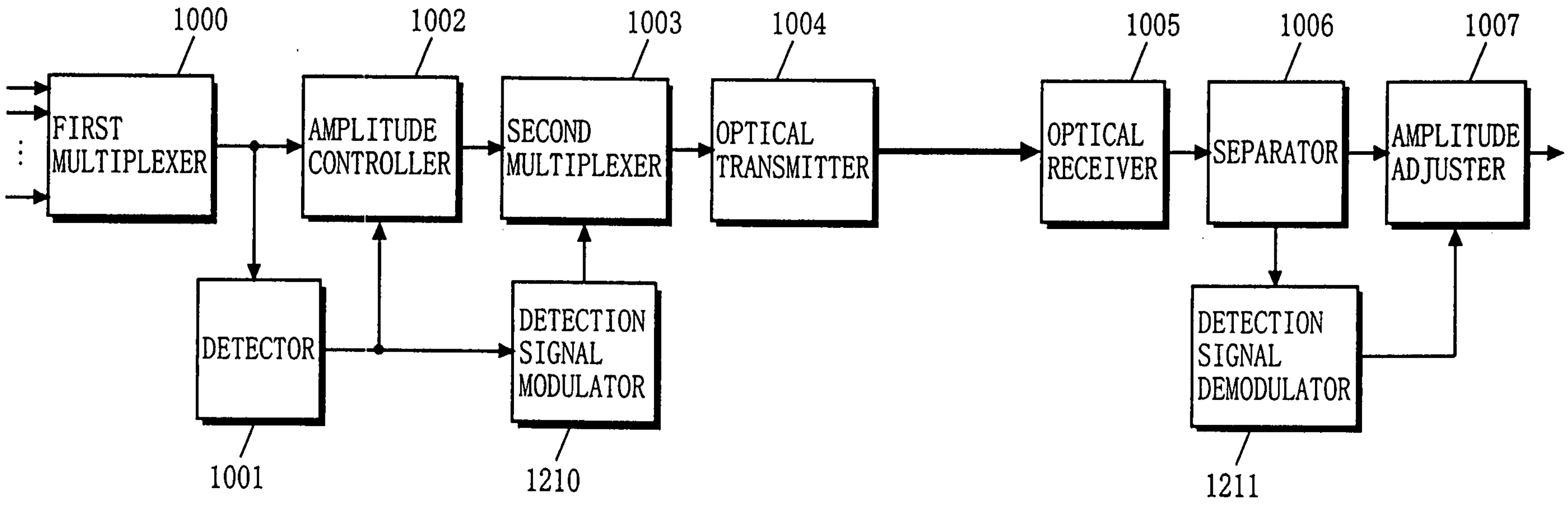

1000
FIRST MULTIPLEXER
1002
AMPLITUDE CONTROLLER
1003
SECOND MULTIPLEXER
1004
OPTICAL TRANSMITTER
1005
OPTICAL RECEIVER
1006
SEPARATOR
1007
AMPLITUDE ADJUSTER
DETECTOR
1001

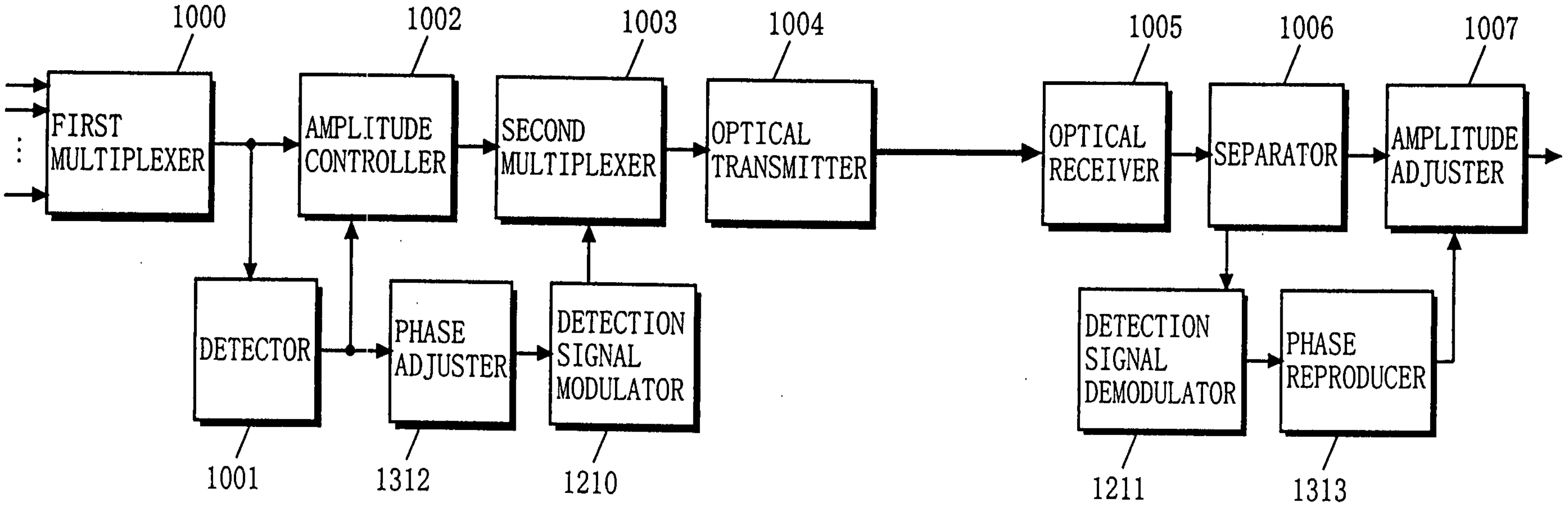
FIG. 11


1000
FIRST MULTIPLEXER
1002
AMPLITUDE CONTROLLER
1003
SECOND MULTIPLEXER
1004
OPTICAL TRANSMITTER
1005
OPTICAL RECEIVER
1006
SEPARATOR
1007
AMPLITUDE ADJUSTER
DETECTOR
1001
PHASE ADJUSTER
1112
PHASE REPRODUCER
1113

F I G. 1 2


1000
FIRST MULTIPLEXER
1002
AMPLITUDE CONTROLLER
1003
SECOND MULTIPLEXER
1004
OPTICAL TRANSMITTER
1005
OPTICAL RECEIVER
1006
SEPARATOR
1007
AMPLITUDE ADJUSTER
DETECTOR
1001
DETECTION SIGNAL MODULATOR
1210
DETECTION SIGNAL DEMODULATOR
1211

F I G. 1 3



1000
FIRST MULTIPLEXER
1002
AMPLITUDE CONTROLLER
1003
SECOND MULTIPLEXER
1004
OPTICAL TRANSMITTER
1005
OPTICAL RECEIVER
1006
SEPARATOR
1007
AMPLITUDE ADJUSTER
DETECTOR
1001
PHASE ADJUSTER
1312
DETECTION SIGNAL MODULATOR
1210
DETECTION SIGNAL DEMODULATOR
1211
PHASE REPRODUCER
1313

FIG. 14 PRIOR ART

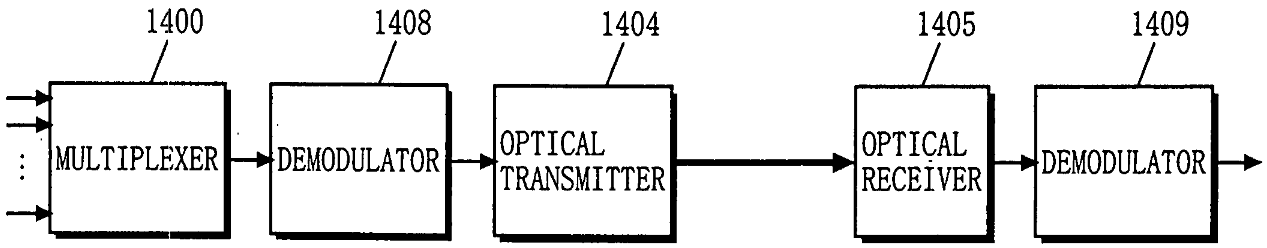


FIG. 15 PRIOR ART

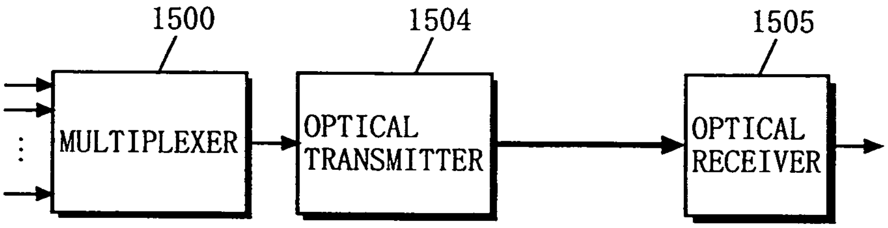


FIG. 16 PRIOR ART

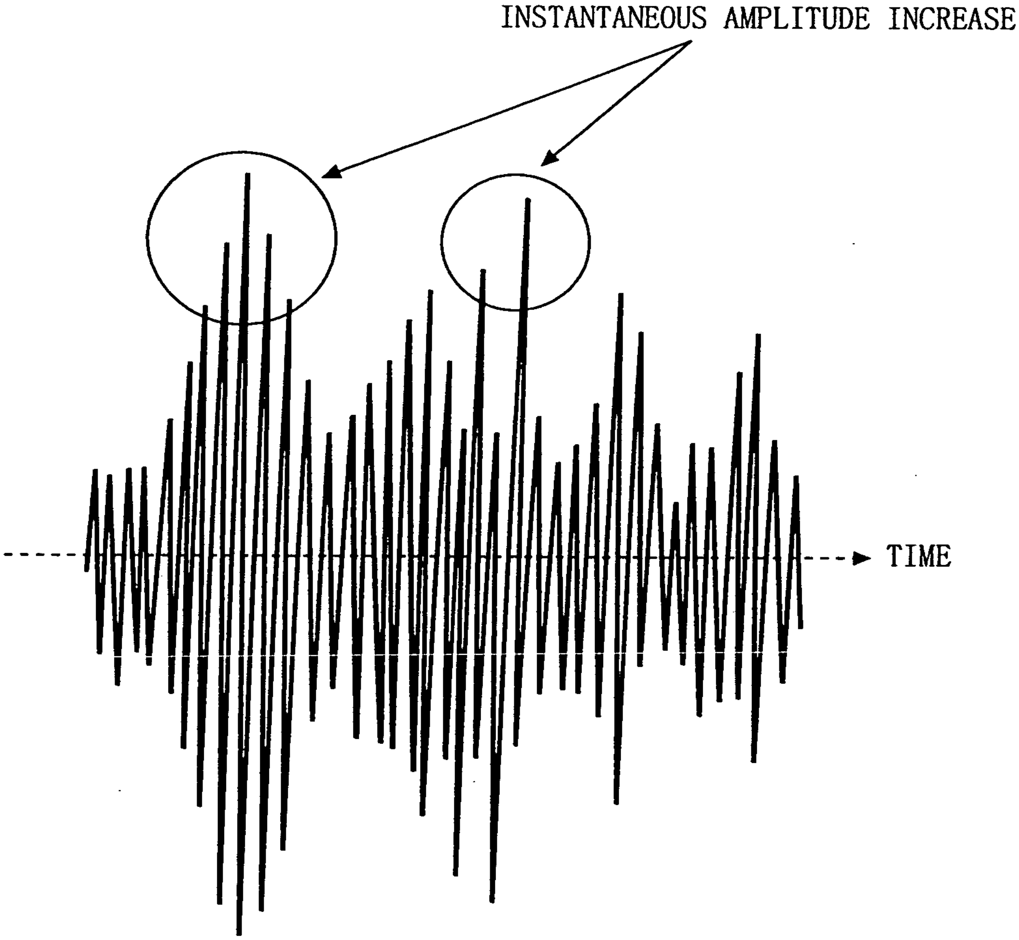


FIG. 17 PRIOR ART

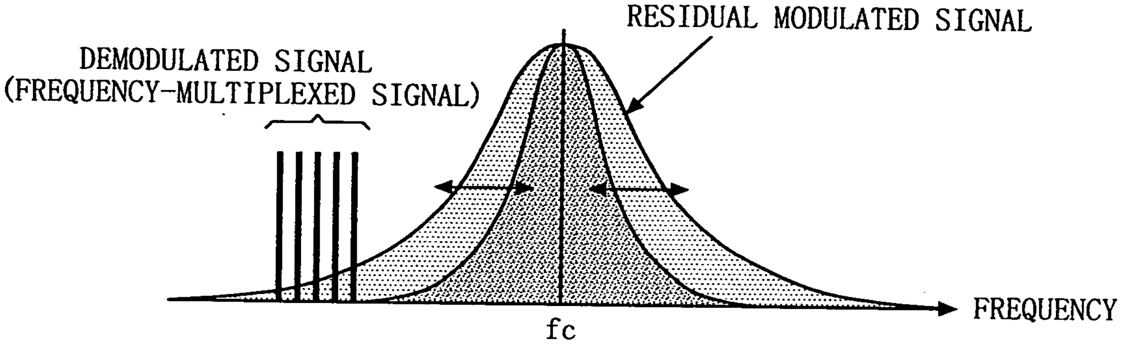


FIG. 18 PRIOR ART